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## Inventor Name Search Result

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Last Name = CHAUVEL

First Name = GERARD

Application#	Patent#	Status	Date Filed	Title	Inventor Name
<a href="#">09591656</a>	<a href="#">6792508</a>	150	06/09/2000	CACHE WITH MULTIPLE FILL MODES	CHAUVEL, GERARD
<a href="#">09677658</a>	<a href="#">6452641</a>	150	10/04/2000	METHOD AND APPARATUS FOR PROVIDING AN ON-SCREEN DISPLAY WITH VARIABLE RESOLUTION CAPABILITY	CHAUVEL, GERARD
<a href="#">09679000</a>	<a href="#">6310657</a>	150	10/04/2000	REAL TIME WINDOW ADDRESS CALCULATION FOR ON-SCREEN DISPLAY	CHAUVEL, GERARD
<a href="#">09696052</a>	<a href="#">7111177</a>	150	10/25/2000	SYSTEM AND METHOD FOR EXECUTING TASKS ACCORDING TO A SELECTED SCENARIO IN RESPONSE TO PROBABILISTIC POWER CONSUMPTION INFORMATION OF EACH SCENARIO	CHAUVEL, GERARD
<a href="#">09703827</a>	Not Issued	161	11/01/2000	Prefetch for TLB cache	CHAUVEL, GERARD
<a href="#">09932136</a>	<a href="#">7062304</a>	150	08/17/2001	TASK BASED ADAPTATIVE PROFILIG AND DEBUGGING	CHAUVEL, GERARD
<a href="#">09932137</a>	<a href="#">6901521</a>	150	08/17/2001	DYNAMIC HARDWARE CONTROL FOR ENERGY MANAGEMENT SYSTEMS USING TASK ATTRIBUTES	CHAUVEL, GERARD
<a href="#">09932222</a>	<a href="#">6681297</a>	150	08/17/2001	SOFTWARE CONTROLLED CACHE CONFIGURATION BASED ON AVERAGE MISS RATE	CHAUVEL, GERARD
<a href="#">09932308</a>	<a href="#">6745293</a>	150	08/17/2001	LEVEL 2 SMARTCACHE ARCHITECTURE SUPPORTING SIMULTANEOUS MULTIPROCESSOR ACCESSES	CHAUVEL, GERARD

<u>09932317</u>	<u>6678797</u>	150	08/17/2001	CACHE/SMARTCACHE WITH INTERRUPTIBLE BLOCK PREFETCH	CHAUVEL, GERARD
<u>09932319</u>	<u>6839813</u>	150	08/17/2001	TLB OPERATIONS BASED ON SHARED BIT	CHAUVEL, GERARD
<u>09932354</u>	<u>6889330</u>	150	08/17/2001	DYNAMIC HARDWARE CONFIGURATION FOR ENERGY MANAGEMENT SYSTEMS USING TASK ATTRIBUTES	CHAUVEL, GERARD
<u>09932359</u>	<u>6738864</u>	150	08/17/2001	LEVEL 2 CACHE ARCHITECTURE FOR MULTIPROCESSOR WITH TASK_ID AND RESOURCE_ID	CHAUVEL, GERARD
<u>09932361</u>	<u>7174194</u>	150	08/17/2001	TEMPERATURE FIELD CONTROLLED SCHEDULING FOR PROCESSING SYSTEMS	CHAUVEL, GERARD
<u>09932362</u>	<u>6742103</u>	150	08/17/2001	PROCESSING SYSTEM WITH SHARED TRANSLATION LOOKASIDE BUFFER	CHAUVEL, GERARD
<u>09932363</u>	<u>6766421</u>	150	08/17/2001	FAST HARDWARE LOOPING MECHANISM FOR CACHE CLEANING AND FLUSHING OF CACHE ENTRIES CORRESPONDING TO A QUALIFIER FIELD	CHAUVEL, GERARD
<u>09932378</u>	<u>6851072</u>	150	08/17/2001	FAULT MANAGEMENT AND RECOVERY BASED ON TASK-ID	CHAUVEL, GERARD
<u>09932380</u>	<u>6684280</u>	150	08/17/2001	TASK BASED PRIORITY ARBITRATION	CHAUVEL, GERARD
<u>09932382</u>	<u>6957315</u>	150	08/17/2001	TLB LOCK AND UNLOCK OPERATION	CHAUVEL, GERARD
<u>09932397</u>	<u>6779085</u>	150	08/17/2001	TLB OPERATION BASED ON TASK-ID	CHAUVEL, GERARD
<u>09932556</u>	Not Issued	95	08/17/2001	ADDRESS SPACE PRIORITY ARBITRATION	CHAUVEL, GERARD
<u>09932600</u>	Not Issued	161	08/17/2001	Multilevel cache architecture and data transfer	CHAUVEL, GERARD
<u>09932607</u>	<u>6742104</u>	150	08/17/2001	MASTER/SLAVE PROCESSING SYSTEM WITH SHARED TRANSLATION LOOKASIDE BUFFER	CHAUVEL, GERARD
<u>09932611</u>	<u>6738888</u>	150	08/17/2001	TLB WITH RESOURCE ID	CHAUVEL,

				FIELD	GERARD
<u>09932634</u>	<u>6728838</u>	150	08/17/2001	CACHE OPERATION BASED ON RANGE OF ADDRESSES	CHAUVEL, GERARD
<u>09932643</u>	<u>6754781</u>	150	08/17/2001	CACHE WITH DMA AND DIRTY BITS	CHAUVEL, GERARD
<u>09932650</u>	<u>6697916</u>	150	08/17/2001	CACHE WITH BLOCK PREFETCH AND DMA	CHAUVEL, GERARD
<u>09932651</u>	<u>6751706</u>	150	08/17/2001	MULTIPLE MICROPROCESSORS WITH A SHARED CACHE	CHAUVEL, GERARD
<u>09932794</u>	<u>6789172</u>	150	08/17/2001	CACHE AND DMA WITH A GLOBAL VALID BIT	CHAUVEL, GERARD
<u>09932807</u>	<u>6760829</u>	150	08/17/2001	MMU DESCRIPTOR HAVING BIG/LITTLE ENDIAN BIT TO CONTROL THE TRANSFER DATA BETWEEN DEVICES	CHAUVEL, GERARD
<u>09932866</u>	<u>7120715</u>	150	08/17/2001	PRIORITY ARBITRATION BASED ON CURRENT TASK AND MMU	CHAUVEL, GERARD
<u>10003570</u>	Not Issued	83	10/24/2001	Data processing apparatus, system and method	CHAUVEL, GERARD
<u>10151282</u>	Not Issued	71	05/20/2002	Energy-aware scheduling of application execution	CHAUVEL, GERARD
<u>10157530</u>	<u>7146613</u>	150	05/29/2002	JAVA DSP ACCELERATION BY BYTE-CODE OPTIMIZATION	CHAUVEL, GERARD
<u>10157555</u>	<u>6769052</u>	150	05/29/2002	CACHE WITH SELECTIVE WRITE ALLOCATION	CHAUVEL, GERARD
<u>10157576</u>	<u>6772326</u>	150	05/29/2002	INTERRUPTIBLE AND RE-ENTRANT CACHE CLEAN RANGE INSTRUCTION	CHAUVEL, GERARD
<u>10157773</u>	Not Issued	41	05/29/2002	Data transfer controlled by task attributes	CHAUVEL, GERARD
<u>10166160</u>	<u>6934820</u>	150	06/10/2002	TRAFFIC CONTROLLER USING PRIORITY AND BURST CONTROL FOR REDUCING ACCESS LATENCY	CHAUVEL, GERARD
<u>10195268</u>	Not Issued	61	07/15/2002	Application execution profiling in conjunction with a virtual machine	CHAUVEL, GERARD
<u>10404854</u>	Not Issued	93	04/01/2003	TRANSPORT PACKET PARSER	CHAUVEL, GERARD
<u>10631120</u>	Not Issued	83	07/31/2003	Inter-processor control	CHAUVEL, GERARD
<u>10631185</u>	Not	161	07/31/2003	Write back policy for memory	CHAUVEL,

	Issued				GERARD
<u>10631195</u>	Not Issued	41	07/31/2003	Conditional garbage based on monitoring to improve real time performance	CHAUVEL, GERARD
<u>10631196</u>	Not Issued	41	07/31/2003	Saturated arithmetic in a processing unit	CHAUVEL, GERARD
<u>10631205</u>	Not Issued	71	07/31/2003	Methods and apparatuses for managing memory	CHAUVEL, GERARD
<u>10631246</u>	Not Issued	41	07/31/2003	Processor that accommodates multiple instruction sets and multiple decode modes	CHAUVEL, GERARD
<u>10631252</u>	Not Issued	161	07/31/2003	Methods and apparatuses for managing memory	CHAUVEL, GERARD
<u>10631308</u>	Not Issued	61	07/31/2003	Mixed stack-based RISC processor	CHAUVEL, GERARD
<u>10631422</u>	7162586	150	07/31/2003	SYNCHRONIZING STACK STORAGE	CHAUVEL, GERARD
<u>10631939</u>	Not Issued	71	07/31/2003	Multi-processor computing system having a JAVA stack machine and a RISC-based processor	CHAUVEL, GERARD

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Application#	Patent#	Status	Date Filed	Title	Inventor Name
<a href="#">10632024</a>	Not Issued	71	07/31/2003	Synchronization of processor states	CHAUVEL, GERARD
<a href="#">10632067</a>	<a href="#">7203797</a>	150	07/31/2003	MEMORY MANAGEMENT OF LOCAL VARIABLES	CHAUVEL, GERARD
<a href="#">10632069</a>	Not Issued	61	07/31/2003	Using IMPDEP2 for system commands related to Java accelator hardware	CHAUVEL, GERARD
<a href="#">10632076</a>	Not Issued	61	07/31/2003	Memory management of local variables upon a change of context	CHAUVEL, GERARD
<a href="#">10632077</a>	Not Issued	71	07/31/2003	Concurrent task execution in a multi-processor, single operating system environment	CHAUVEL, GERARD
<a href="#">10632079</a>	<a href="#">7058765</a>	150	07/31/2003	PROCESSOR WITH A SPLIT STACK	CHAUVEL, GERARD
<a href="#">10632084</a>	Not Issued	161	07/31/2003	Test and skip processor instruction having at least one register operand	CHAUVEL, GERARD
<a href="#">10632214</a>	Not Issued	61	07/31/2003	Test with immediate and skip processor instruction	CHAUVEL, GERARD
<a href="#">10632215</a>	Not Issued	41	07/31/2003	Reformat logic to translate between a virtual address and a compressed physical address	CHAUVEL, GERARD
<a href="#">10632216</a>	Not Issued	71	07/31/2003	Micro-sequence execution in a processor	CHAUVEL, GERARD
<a href="#">10632222</a>	Not Issued	61	07/31/2003	Program counter adjustment based on the detection of an instruction prefix	CHAUVEL, GERARD
<a href="#">10632228</a>	<a href="#">7069415</a>	150	07/31/2003	SYSTEM AND METHOD TO AUTOMATICALLY STACK AND UNSTACK JAVA LOCAL VARIABLES	CHAUVEL, GERARD

<u>10632229</u>	6996683	150	07/31/2003	CACHE COHERENCY IN A MULTI-PROCESSOR SYSTEM	CHAUVEL, GERARD
<u>10818584</u>	Not Issued	71	04/05/2004	Management of stack-based memory usage in a processor	CHAUVEL, GERARD
<u>10830917</u>	Not Issued	41	04/22/2004	Dynamically changing the semantic of an instruction	CHAUVEL, GERARD
<u>10831387</u>	Not Issued	41	04/22/2004	Embedded garbage collection	CHAUVEL, GERARD
<u>10831388</u>	Not Issued	161	04/22/2004	Memory allocation in a multi-processor system	CHAUVEL, GERARD
<u>10831470</u>	Not Issued	123	04/23/2004	Unresolved instruction resolution	CHAUVEL, GERARD
<u>10831575</u>	Not Issued	30	04/22/2004	Accessing device driver memory in programming language representation	CHAUVEL, GERARD
<u>10891821</u>	Not Issued	41	07/14/2004	Smart cache	CHAUVEL, GERARD
<u>11116522</u>	Not Issued	61	04/28/2005	Compare instruction	CHAUVEL, GERARD
<u>11116893</u>	Not Issued	161	04/28/2005	Memory access instruction with optional error check	CHAUVEL, GERARD
<u>11116897</u>	Not Issued	61	04/28/2005	Pack instruction	CHAUVEL, GERARD
<u>11116918</u>	Not Issued	61	04/28/2005	Unpack instruction	CHAUVEL, GERARD
<u>11135796</u>	Not Issued	41	05/24/2005	Method and system of informing a micro-sequence of operand width	CHAUVEL, GERARD
<u>11186036</u>	Not Issued	30	07/21/2005	Removing local RAM size limitations when executing software code	CHAUVEL, GERARD
<u>11186239</u>	Not Issued	30	07/21/2005	Splitting execution of instructions between hardware and software	CHAUVEL, GERARD
<u>11186271</u>	Not Issued	30	07/21/2005	Method and system for accessing indirect memories	CHAUVEL, GERARD
<u>11186315</u>	Not Issued	30	07/21/2005	Storing contexts for thread switching	CHAUVEL, GERARD
<u>11186330</u>	Not Issued	30	07/21/2005	Optimizing data manipulation in media processing applications	CHAUVEL, GERARD
<u>11188309</u>	Not Issued	30	07/25/2005	Delegating tasks between multiple processor cores	CHAUVEL, GERARD
<u>11188310</u>	Not Issued	25	07/25/2005	Method and system to emulate an M-bit instruction set	CHAUVEL, GERARD

<u>11188311</u>	Not Issued	30	07/25/2005	Automatic operand load, modify and store	CHAUVEL, GERARD
<u>11188336</u>	Not Issued	41	07/25/2005	Method and system to disable the "wide" prefix	CHAUVEL, GERARD
<u>11188502</u>	Not Issued	30	07/25/2005	Method and system to construct a data-flow analyzer for a bytecode verifier	CHAUVEL, GERARD
<u>11188503</u>	Not Issued	30	07/25/2005	Method and system of using a "WIDE" opcode other than prefix	CHAUVEL, GERARD
<u>11188504</u>	Not Issued	30	07/25/2005	Identifying code for compilation	CHAUVEL, GERARD
<u>11188592</u>	Not Issued	41	07/25/2005	Compare instruction	CHAUVEL, GERARD
<u>11188667</u>	Not Issued	30	07/25/2005	Emulating a direct memory access controller	CHAUVEL, GERARD
<u>11188668</u>	<u>7260682</u>	150	07/25/2005	CACHE MEMORY USABLE AS SCRATCH PAD STORAGE	CHAUVEL, GERARD
<u>11188827</u>	Not Issued	30	07/25/2005	Automatic operand load and store	CHAUVEL, GERARD
<u>11188923</u>	Not Issued	71	07/25/2005	Interrupt management in dual core processors	CHAUVEL, GERARD
<u>11189367</u>	Not Issued	25	07/26/2005	Method and system of control flow graph construction	CHAUVEL, GERARD
<u>11189422</u>	Not Issued	25	07/26/2005	Method and system for implementing an interrupt handler	CHAUVEL, GERARD
<u>11560883</u>	Not Issued	20	11/17/2006	Method And System Of Accessing Display Window Memory	CHAUVEL, GERARD
<u>11677367</u>	Not Issued	25	02/21/2007	Micro-Sequence Based Security Model	CHAUVEL, GERARD
<u>11741237</u>	Not Issued	17	04/27/2007	METHOD AND SYSTEM FOR PERFORMING A JAVA INTERRUPT	CHAUVEL, GERARD
<u>60029923</u>	Not Issued	159	11/01/1996	DEVICE FOR IDENTIFYING PACKETS OF DIGITAL DATA AND A RECEIVER FOR DIGITAL TELEVISION SIGNALS EQUIPPED WITH SUCH A DEVICE	CHAUVEL, GERARD
<u>60030104</u>	Not Issued	159	11/01/1996	SYSTEM TO MULTIPLEX AND BLEND GRAPHIC OSD AND MOTION VIDEO PICTURES FOR DIGITAL TELEVISION	CHAUVEL, GERARD

<u>60030105</u>	Not Issued	159	11/01/1996	ON SCREEN DISPLAY SYSTEM WITH REAL TIME WINDOW ADDRESS	CHAUVEL, GERARD
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Relevance scale ☐ ☐ ☐ ☐ ☐**1** [The multics system: an examination of its structure](#)

Elliott I. Organick

January 1972 Book

**Publisher:** MIT PressAdditional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

This volume provides an overview of the Multics system developed at M.I.T.--a time-shared, general purpose utility like system with third-generation software. The advantage that this new system has over its predecessors lies in its expanded capacity to manipulate and file information on several levels and to police and control access to data in its various files. On the invitation of M.I.T.'s Project MAC, Elliott Organick developed over a period of years an explanation of the workings, concep ...

**2** [Tolerating late memory traps in ILP processors](#)

Xiaogang Qiu, Michel Dubois

 May 1999 **ACM SIGARCH Computer Architecture News , Proceedings of the 26th annual international symposium on Computer architecture ISCA '99**, Volume 27 Issue 2
**Publisher:** IEEE Computer Society, ACM PressFull text available: [pdf\(100.18 KB\)](#)Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)[Publisher Site](#)

ILP processors can execute a large number of instructions at the same time. Thus it becomes more and more difficult to support traps efficiently. On the other hand a current trend in architecture is to support various memory functions in software rather than hardware, usually by trapping the execution processor on a cache miss, TLB miss or a failed access to a local or remote memory. These late memory traps block the faulting instruction at the top of the active list, backing up the pipeline. Mo ...

**3** [The Clipper processor: instruction set architecture and implementation](#)

W. Hollingsworth, H. Sachs, A. J. Smith

February 1989 **Communications of the ACM**, Volume 32 Issue 2**Publisher:** ACM PressFull text available: [pdf\(4.67 MB\)](#)Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

Intergraph's CLIPPER microprocessor is a high performance, three chip module that

implements a new instruction set architecture designed for convenient programmability, broad functionality, and easy future expansion.

4 MASA: a multithreaded processor architecture for parallel symbolic computing



R. H. Halstead, T. Fujita

May 1988 **ACM SIGARCH Computer Architecture News , Proceedings of the 15th Annual International Symposium on Computer architecture ISCA '88**, Volume 16 Issue 2

**Publisher:** IEEE Computer Society Press, ACM Press

Full text available: pdf(1.10 MB) Additional Information: [full citation](#), [abstract](#), [citations](#), [index terms](#)

MASA is a "first cut" at a processor architecture intended as a building block for a multiprocessor that can execute parallel Lisp programs efficiently. MASA features a tagged architecture, multiple contexts, fast trap handling, and a synchronization bit in every memory word. MASA's principal novelty is its use of multiple contexts both to support multithreaded execution—interleaved execution from separate instruction streams—and to speed up procedur ...

5 The influence of random delays on parallel execution times



Vikram S. Adve, Mary K. Vernon

June 1993 **ACM SIGMETRICS Performance Evaluation Review , Proceedings of the 1993 ACM SIGMETRICS conference on Measurement and modeling of computer systems SIGMETRICS '93**, Volume 21 Issue 1

**Publisher:** ACM Press

Full text available: pdf(1.52 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Stochastic models are widely used for the performance evaluation of parallel programs and systems. The stochastic assumptions in such models are intended to represent non-deterministic processing requirements as well as random delays due to inter-process communication and resource contention. In this paper, we provide compelling analytical and experimental evidence that in current and foreseeable shared-memory programs, communication delays introduce negligible variance into the execution time ...

6 Selected writings on computing: a personal perspective

Edsger W. Dijkstra

January 1982 Book

**Publisher:** Springer-Verlag New York, Inc.

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Since the summer of 1973, when I became a Burroughs Research Fellow, my life has been very different from what it had been before. The daily routine changed: instead of going to the University each day, where I used to spend most of my time in the company of others, I now went there only one day a week and was most of the time that is, when not travelling!-- alone in my study. In my solitude, mail and the written word in general became more and more important. The circumstance that my employe ...

7 A processor architecture for horizon

M. R. Thistle, B. J. Smith

November 1988 **Proceedings of the 1988 ACM/IEEE conference on Supercomputing Supercomputing '88**

**Publisher:** IEEE Computer Society Press

Full text available: pdf(970.44 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Horizon is a scalable shared-memory Multiple Instruction stream - Multiple Data stream (MIMD) computer architecture independently under study at the Supercomputing

Research Center (SRC) and Tera Computer Company. It is composed of a few hundred identical scalar processors and a comparable number of memories, sparsely embedded in a three-dimensional nearest-neighbor network. Each processor has a horizontal instruction set that can issue up to three floating point operations per cycle without ...

#### 8 APRIL: a processor architecture for multiprocessing

 Anant Agarwal, Beng-Hong Lim, David Kranz, John Kubiawicz  
May 1990 **ACM SIGARCH Computer Architecture News , Proceedings of the 17th annual international symposium on Computer Architecture ISCA '90**, Volume 18 Issue 3a


**Publisher:** ACM Press

Full text available:  [pdf\(1.38 MB\)](#)


Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Processors in large-scale multiprocessors must be able to tolerate large communication latencies and synchronization delays. This paper describes the architecture of a rapid-context-switching processor called APRIL with support for fine-grain threads and synchronization. APRIL achieves high single-thread performance and supports virtual dynamic threads. A commercial RISC-based implementation of APRIL and a run-time software system that can switch contexts in about 10 cycles is described. Me ...

#### 9 Informing memory operations: providing memory performance feedback in modern processors

 Mark Horowitz, Margaret Martonosi, Todd C. Mowry, Michael D. Smith  
May 1996 **ACM SIGARCH Computer Architecture News , Proceedings of the 23rd annual international symposium on Computer architecture ISCA '96**, Volume 24 Issue 2

**Publisher:** ACM Press

Full text available:  [pdf\(1.55 MB\)](#)


Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Memory latency is an important bottleneck in system performance that cannot be adequately solved by hardware alone. Several promising software techniques have been shown to address this problem successfully in specific situations. However, the generality of these software approaches has been limited because current architectures do not provide a fine-grained, low-overhead mechanism for observing and reacting to memory behavior directly. To fill this need, we propose a new class of memory operati ...

#### 10 Operating system principles

Per Brinch Hansen  
January 1973 Book

**Publisher:** Prentice-Hall, Inc.

Full text available:  [pdf\(16.81 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

##### **From the Preface**

##### **MAIN GOAL**

This book tries to give students of computer science and professional programmers a general understanding of *operating systems*--the programs that enable people to share computers efficiently.

To make the sharing of a computer tolerable, an operating system must enforce certain rules of behavior on all its users. One would therefore expect the designers of operating systems to do their utmost to make them as s ...

### 11 Smalltalk-80: the language and its implementation

Adele Goldberg, David Robson  
January 1983 Book

**Publisher:** Addison-Wesley Longman Publishing Co., Inc.

Full text available:  [pdf\(33.56 MB\)](#) Additional Information: [full citation](#), [abstract](#), [cited by](#), [index terms](#), [review](#)

#### **From the Preface (See Front Matter for full Preface)**

Advances in the design and production of computer hardware have brought many more people into direct contact with computers. Similar advances in the design and production of computer software are required in order that this increased contact be as rewarding as possible. The Smalltalk-80 system is a result of a decade of research into creating computer software that is appropriate for producing highly functional and interactive ...

### 12 A RISC processor architecture with a versatile stack system



Claus Aßmann

December 1993 **ACM SIGARCH Computer Architecture News**, Volume 21 Issue 5

**Publisher:** ACM Press

Full text available:  [pdf\(785.39 KB\)](#) Additional Information: [full citation](#), [abstract](#), [citations](#), [index terms](#)

Modern RISC processors mainly differ w.r.t. the organization of their register files. There are currently three different approaches: a flat register file (e.g., MIPS), fixed-size register windows (SPARC), or a stack-like organization (AM29K). This paper describes a processor architecture with a new stack system, which is tailored to the needs of executing functional languages. In order to support a fast subroutine call mechanism and efficient parameter passing, our architecture uses a system of ...

**Keywords:** RISC, functional languages, processor architecture, register file, stack

### 13 Using the Alfa-1 simulated processor for educational purposes



Gabriel A. Wainer, Sergio Daicz, Luis F. De Simoni, Demian Wassermann

December 2001 **Journal on Educational Resources in Computing (JERIC)**, Volume 1 Issue 4

**Publisher:** ACM Press

Full text available:  [pdf\(238.65 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Alfa-1 is a simulated computer designed for computer organization courses. Alfa-1 and its accompanying toolkit allow students to acquire practical insights into developing hardware by extending existing components. The DEVS formalism is used to model individual components and to integrate them into a hierarchy that describes the detailed behavior of different levels of a computer's architecture. We introduce Alfa-1 and the toolkit, show how to extend existing components, and describe how ...

**Keywords:** DEVS formalism, modeling computer architectures, systems specification

### 14 Essays in computing science

C. A. R. Hoare  
January 1989 Book

**Publisher:** Prentice-Hall, Inc.

Full text available:  [pdf\(20.91 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [review](#)

Charles Antony Richard Hoare is one of the most productive and prolific computer scientists. This volume contains a selection of his published papers. There is a need, as in a Shakespearian Chorus, to offer some apology for what the book manifestly fails to achieve. It is not a complete 'collected works'. Selection between papers of this quality is

not easy and, given the book's already considerable size, some difficult decisions as to what to omit have had to be made. Pity the editor weighin ...

### 15 A modeling approach and design tool for pipelined central processors



D. E. Lang, T. K. Agerwala, K. M. Chandy

April 1979 **Proceedings of the 6th annual symposium on Computer architecture ISCA '79**

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Full text available: [pdf\(645.97 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

As CPUs have become larger and more complex, it has become increasingly more difficult during hardware design and implementation to predict how well a CPU will perform. Furthermore, buyers of such machines have a similar problem in evaluating CPU performance among a diverse selection of computers, since MIP rates quoted by manufacturers may be misleading. This paper describes a methodology based on simulation models for predicting the performance of central processors with instru ...

### 16 Trace-driven memory simulation: a survey



Richard A. Uhlig, Trevor N. Mudge

June 1997 **ACM Computing Surveys (CSUR)**, Volume 29 Issue 2

**Publisher:** ACM Press

Full text available: [pdf\(636.11 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

As the gap between processor and memory speeds continues to widen, methods for evaluating memory system designs before they are implemented in hardware are becoming increasingly important. One such method, trace-driven memory simulation, has been the subject of intense interest among researchers and has, as a result, enjoyed rapid development and substantial improvements during the past decade. This article surveys and analyzes these developments by establishing criteria for evaluating trac ...

**Keywords:** TLBs, caches, memory management, memory simulation, trace-driven simulation

### 17 On randomization in sequential and distributed algorithms



Rajiv Gupta, Scott A. Smolka, Shaji Bhaskar

March 1994 **ACM Computing Surveys (CSUR)**, Volume 26 Issue 1

**Publisher:** ACM Press

Full text available: [pdf\(8.01 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Probabilistic, or randomized, algorithms are fast becoming as commonplace as conventional deterministic algorithms. This survey presents five techniques that have been widely used in the design of randomized algorithms. These techniques are illustrated using 12 randomized algorithms—both sequential and distributed—that span a wide range of applications, including: primality testing (a classical problem in number theory), interactive probabilistic proof s ...



**Keywords:** Byzantine agreement, CSP, analysis of algorithms, computational complexity, dining philosophers problem, distributed algorithms, graph isomorphism, hashing, interactive probabilistic proof systems, leader election, message routing, nearest-neighbors problem, perfect hashing, primality testing, probabilistic techniques, randomized or probabilistic algorithms, randomized quicksort, sequential algorithms, transitive tournaments, universal hashing

**18 Fast detection of communication patterns in distributed executions**

Thomas Kunz, Michiel F. H. Seuren


November 1997 **Proceedings of the 1997 conference of the Centre for Advanced Studies on Collaborative research CASCON '97****Publisher:** IBM PressFull text available:  [pdf\(4.21 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Understanding distributed applications is a tedious and difficult task. Visualizations based on process-time diagrams are often used to obtain a better understanding of the execution of the application. The visualization tool we use is Poet, an event tracer developed at the University of Waterloo. However, these diagrams are often very complex and do not provide the user with the desired overview of the application. In our experience, such tools display repeated occurrences of non-trivial commun ...

**19 Waiting algorithms for synchronization in large-scale multiprocessors** Beng-Hong Lim, Anant AgarwalAugust 1993 **ACM Transactions on Computer Systems (TOCS)**, Volume 11 Issue 3**Publisher:** ACM PressFull text available:  [pdf\(2.72 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Through analysis and experiments, this paper investigates two-phase waiting algorithms to minimize the cost of waiting for synchronization in large-scale multiprocessors. In a two-phase algorithm, a thread first waits by polling a synchronization variable. If the cost of polling reaches a limit  $L_{poll}$  and further waiting is necessary, the thread is blocked, incurring an additional fixed cost,  $B$ . The choice of  $L_{poll}$

**Keywords:** barriers, blocking, competitive analysis, locks, producer-consumer synchronization, spinning, waiting time

**20 Informing memory operations: memory performance feedback mechanisms and their applications** Mark Horowitz, Margaret Martonosi, Todd C. Mowry, Michael D. SmithMay 1998 **ACM Transactions on Computer Systems (TOCS)**, Volume 16 Issue 2**Publisher:** ACM PressFull text available:  [pdf\(344.74 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

Memory latency is an important bottleneck in system performance that cannot be adequately solved by hardware alone. Several promising software techniques have been shown to address this problem successfully in specific situations. However, the generality of these software approaches has been limited because current architectures do not provide a fine-grained, low-overhead mechanism for observing and reacting to memory behavior directly. To fill this need, this article proposes a new class ...

**Keywords:** cache miss notification, memory latency, processor architecture

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